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FIG. 1

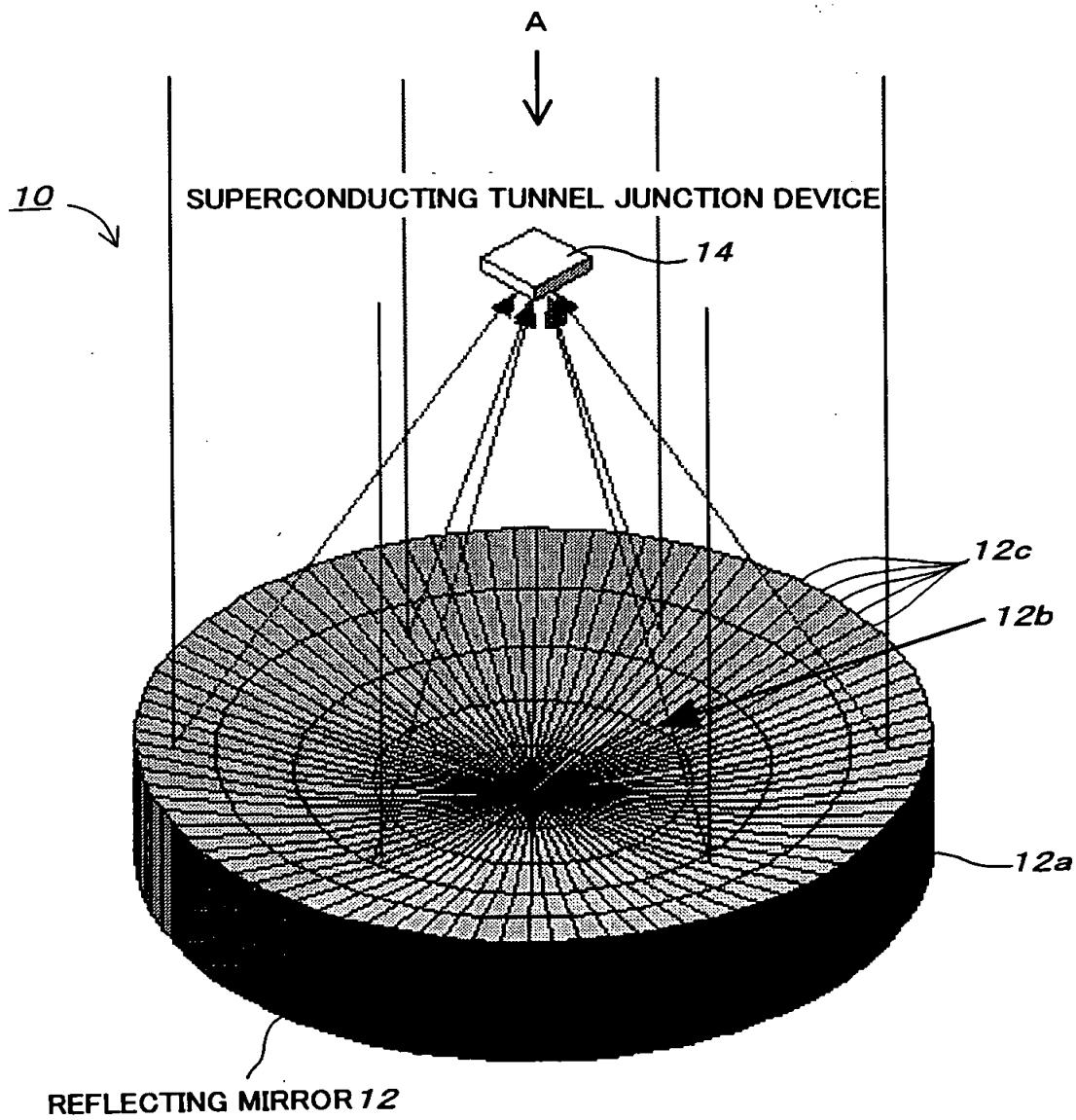
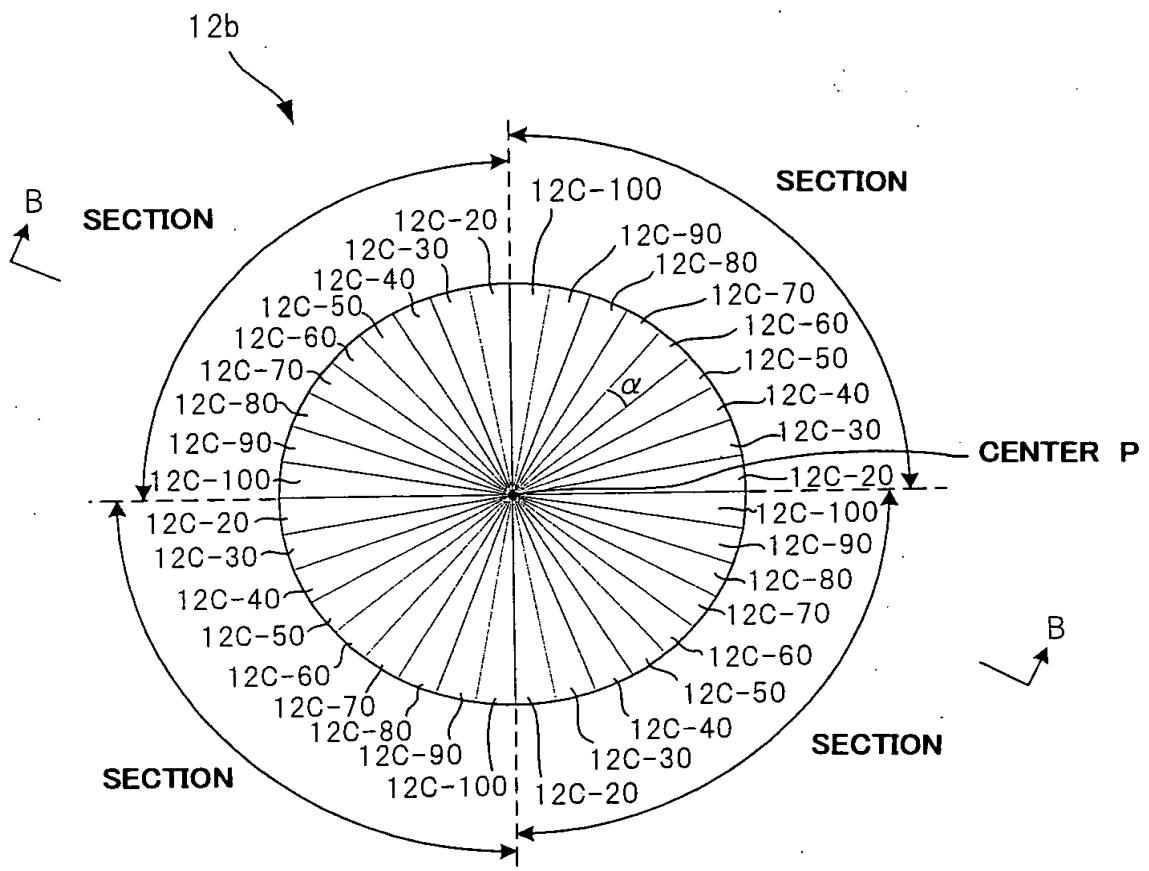
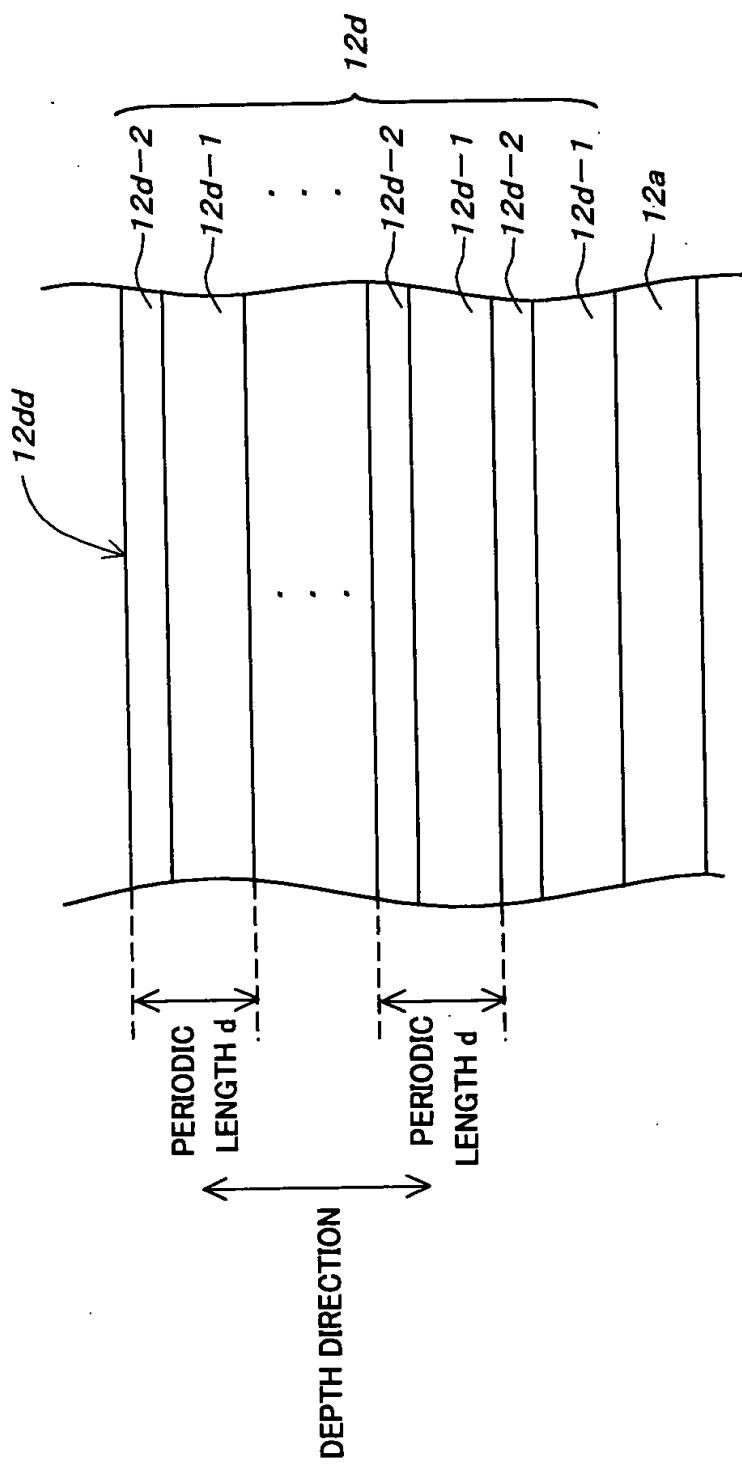


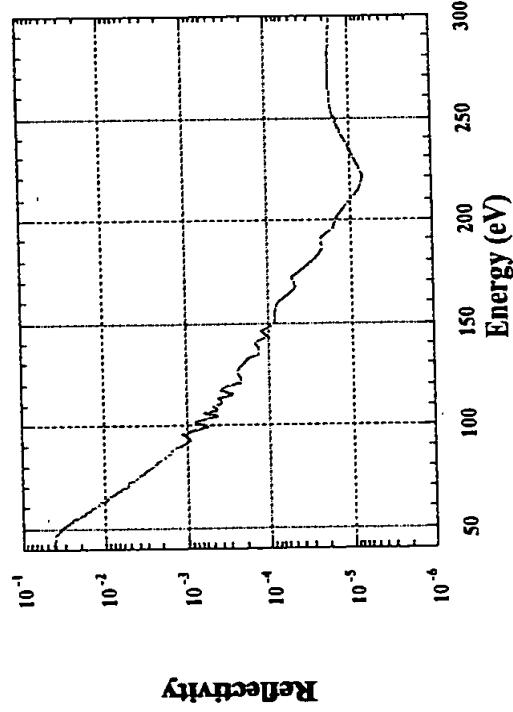
FIG. 2



**FIG. 3**



*FIG. 4 (a)*



*FIG. 4 (b)*

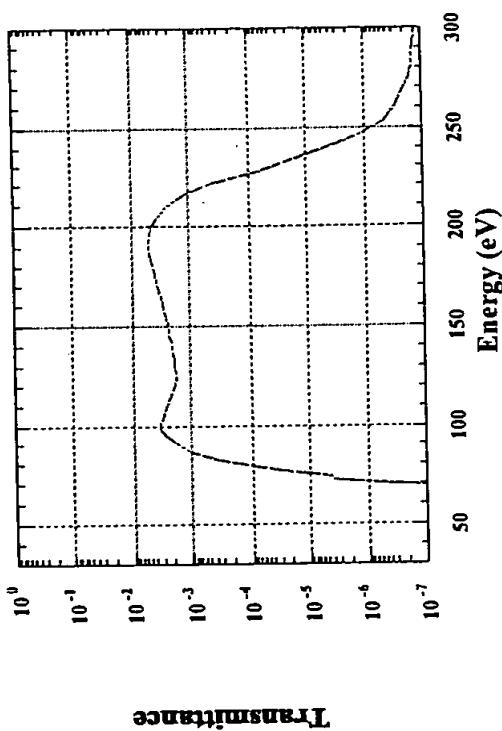


FIG. 5

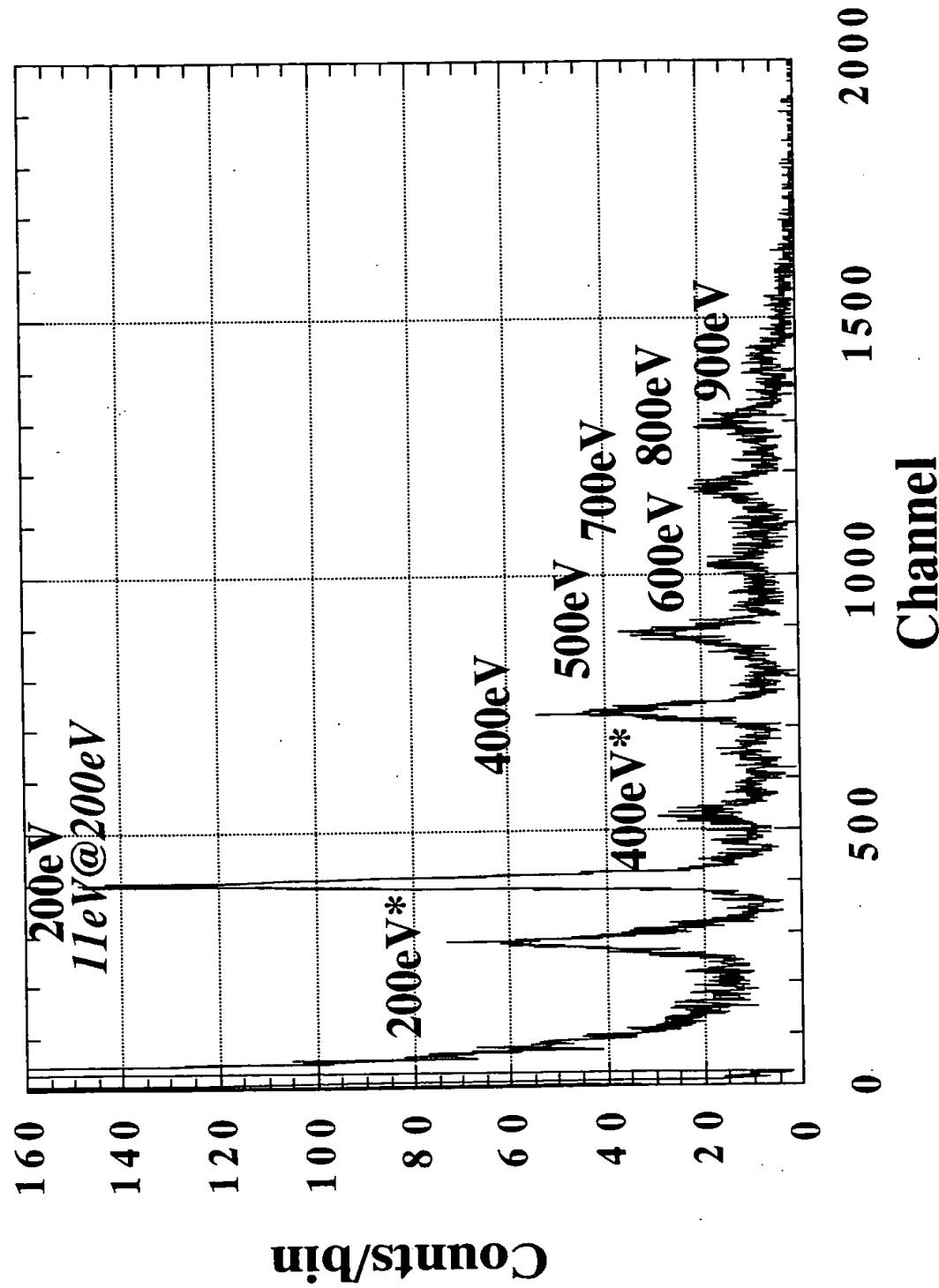
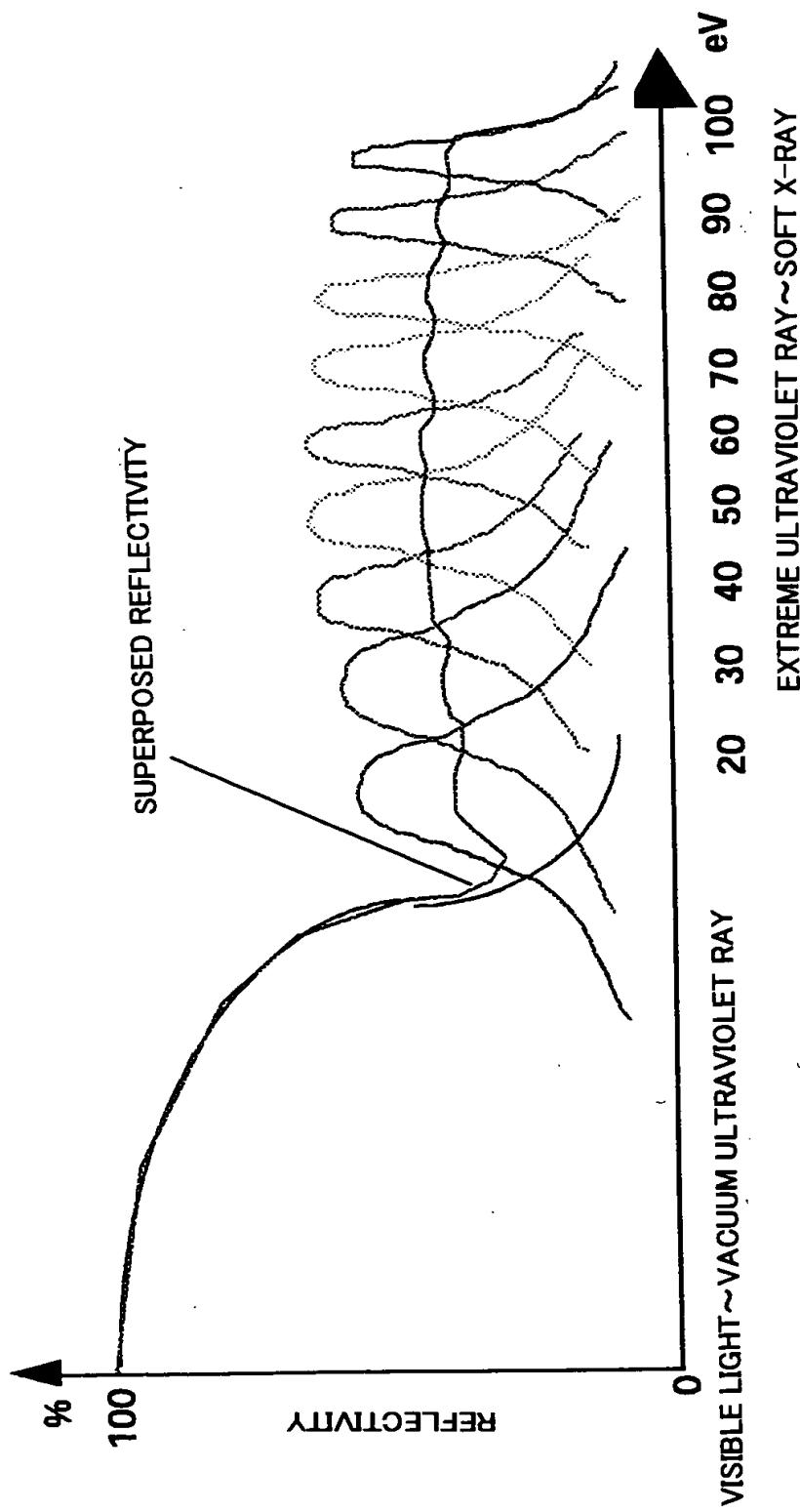


FIG. 6



SYNTHESIZED REFLECTIVITY CHARACTERISTICS OF MULTILAYER FILM REFLECTING MIRROR

FIG. 7(a)

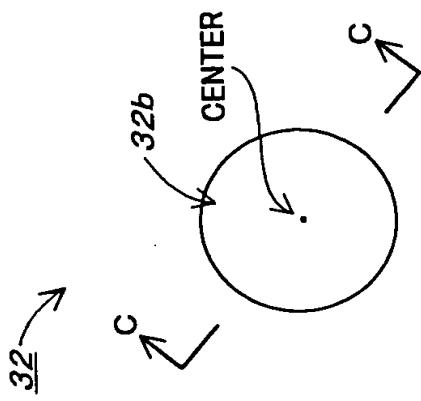
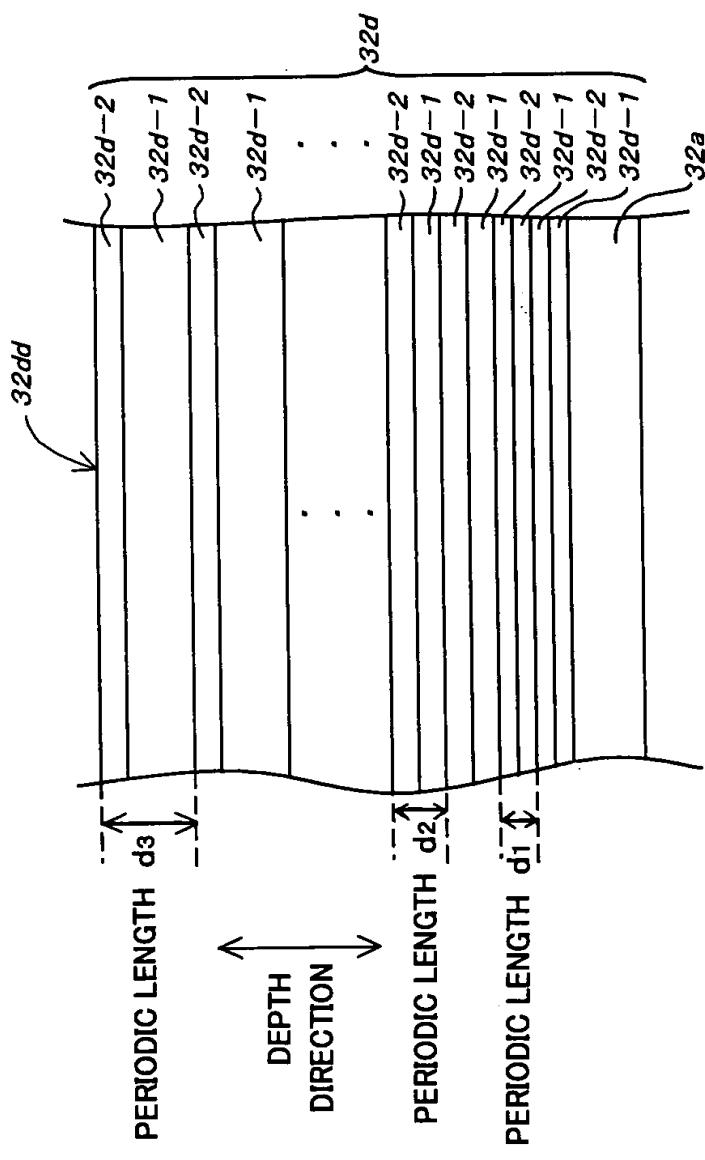


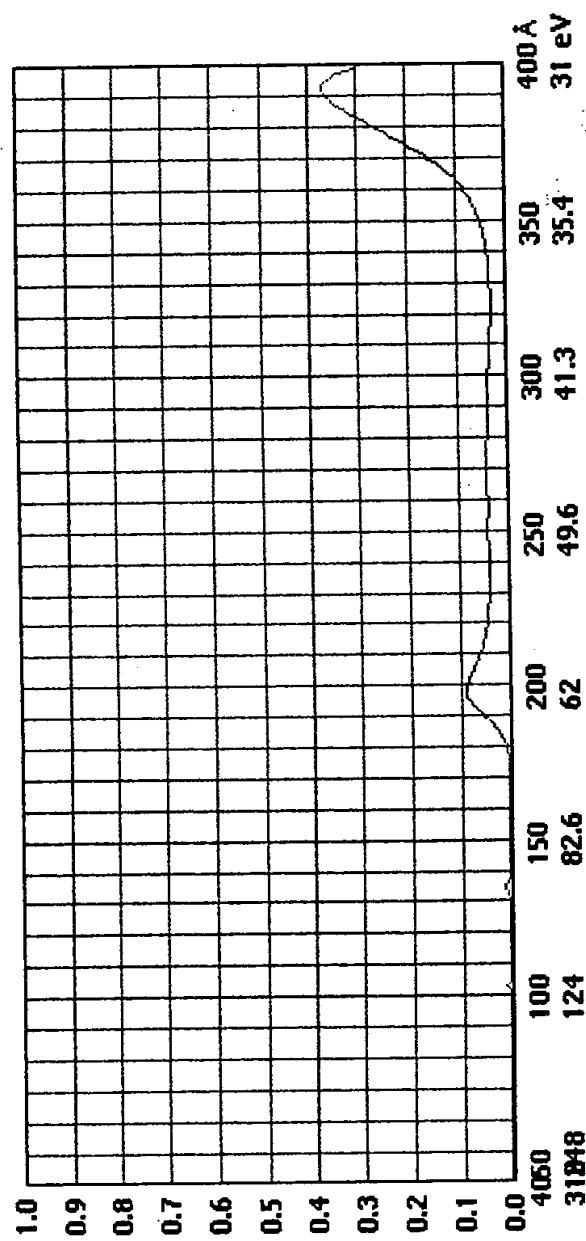
FIG. 7 (b)



# FIG. 8

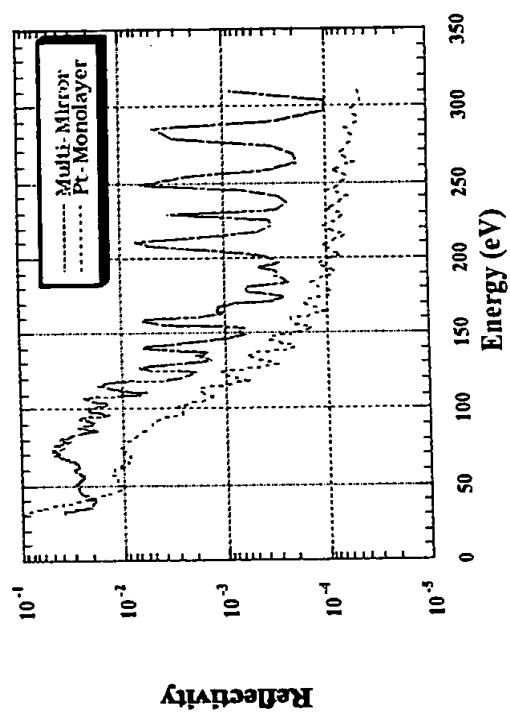
NUMBER	MATERIAL1	MATERIAL2	VALUE $d$	VALUE $\gamma$	NUMBER OF PAIR LAYER	THEORETICAL CALCULATION1	THEORETICAL CALCULATION2
1	Mo	Mg <sub>2</sub> Si	170	50	20	O	O
2	Mo	Mg <sub>2</sub> Si	190	50	20	O	O
3	Mo	Mg <sub>2</sub> Si	210	40	20	O	O
4	Mo	Si	115	50	20	O	O
5	Mo	Si	140	50	20	O	O
6	Mo	Si	55	50	20	O	O
7	Mo	Si	60	50	20	O	O
8	Mo	Si	65	50	20	O	O
9	Mo	Si	65	70	20	O	O
10	Mo	Si	70	70	20	O	O
11	Mo	Si	75	70	20	O	O
12	Mo	Si	80	50	20	O	O
13	Ni	C	22	40	200	O	X
14	Ni	C	25	40	200	O	X
15	Ni	C	30	40	200	O	X
16	Ni	C	40	30	30	O	X
17	Ni	C	45	30	30	O	X
18	Ni	C	50	30	30	O	X
19	Ni	C	55	30	30	O	X
20	Ni	C	60	30	30	O	X
21	Mo	Si	85	50	20	O	O
22	Mo	Si	90	50	20	O	O
23	Mo	Si	95	50	20	O	O

FIG. 9



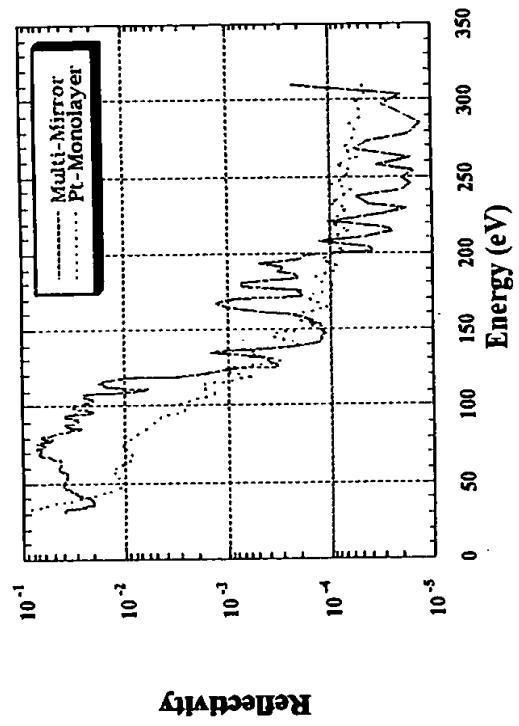
# FIG. 10

COMPARISON OF SYNTHESIZED REFLECTIVITY IN  
MULTILAYER FILM WITH REFLECTIVITY IN Pt MONOLAYER FILM



# FIG. 11

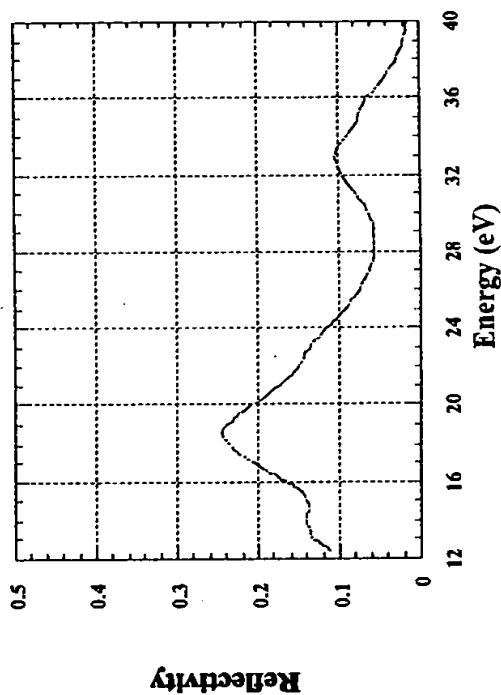
COMPARISON OF SYNTHESIZED REFLECTIVITY WITH REFLECTIVITY  
IN Pt MONOLAYER IN CASE OF IGNORING 125 eV OR HIGHER



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FIG. 12

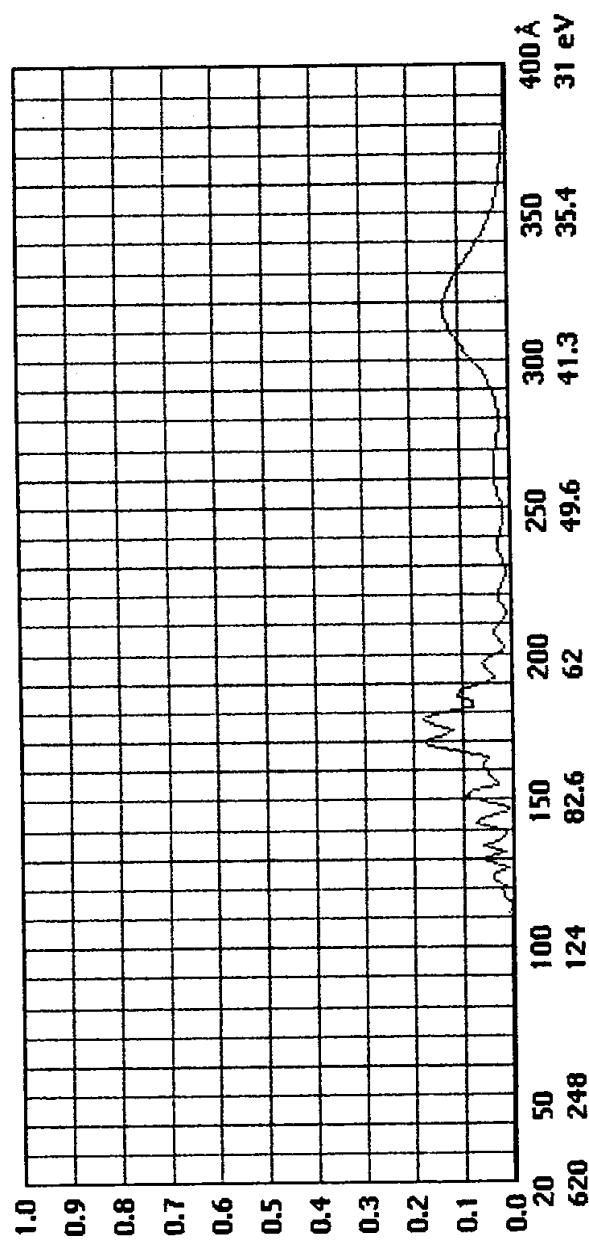
MULTILAYER FILM Mo/Mg<sub>2</sub>Si VALUE d 200  
VALUE G 30 100PAIR LAYER



# FIG. 13

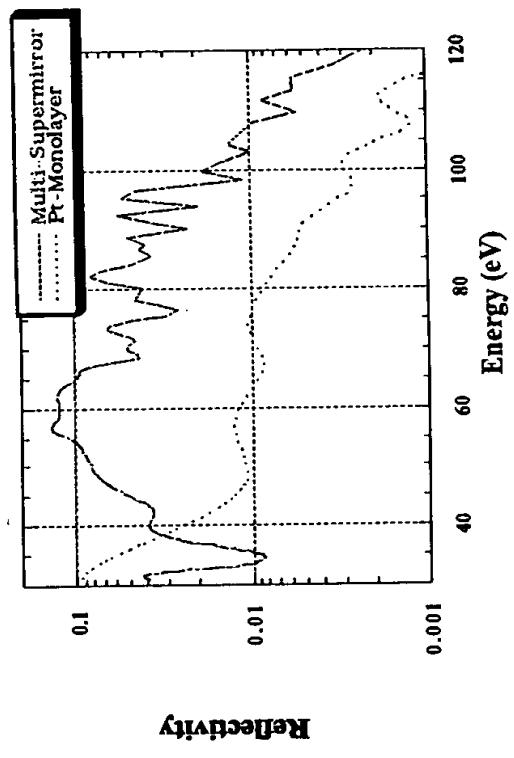
NUMBER	MATERIAL1	MATERIAL2	INITIATION VALUE d	TERMINATION VALUE d	VALUE Y	NUMBER OF PAIR LAYER
1	Mo	Si	170	50	30	20
2	Mo	Si	190	50	50	20
3	Mo	Si	210	50	35	20
4	Mo	Si	115	50	25	20
5	Mo	Si	140	50	20	100

FIG. 14

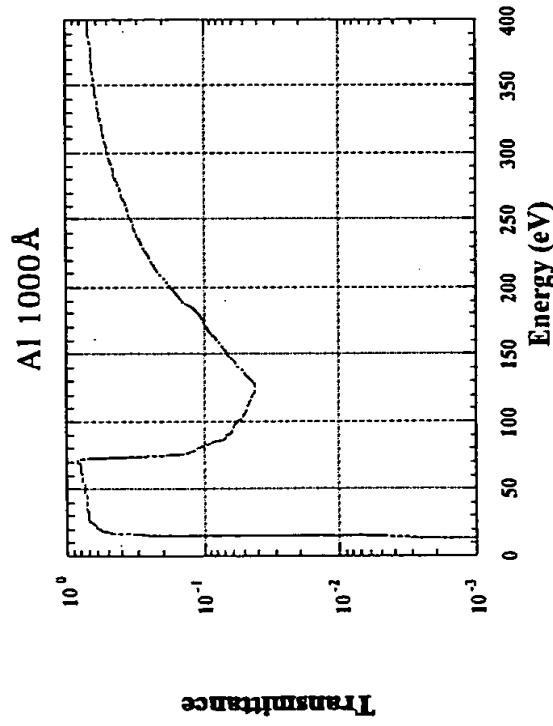


# FIG. 15

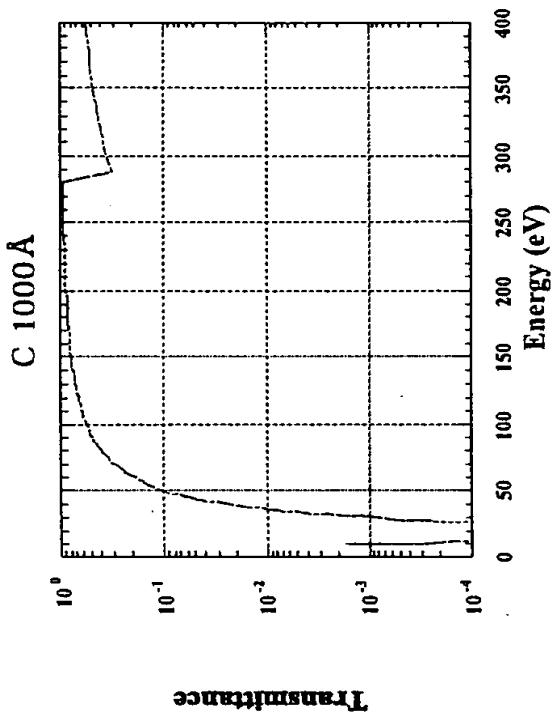
COMPARISON OF SYNTHESIZED REFLECTIVITY IN  
SUPERMIRROR WITH REFLECTIVITY IN Pt MONOLAYER FILM



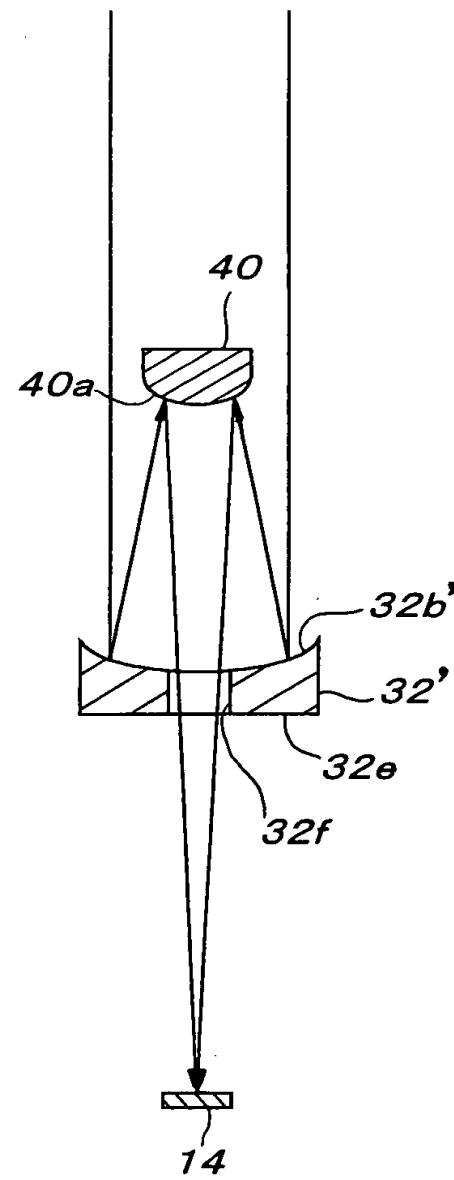
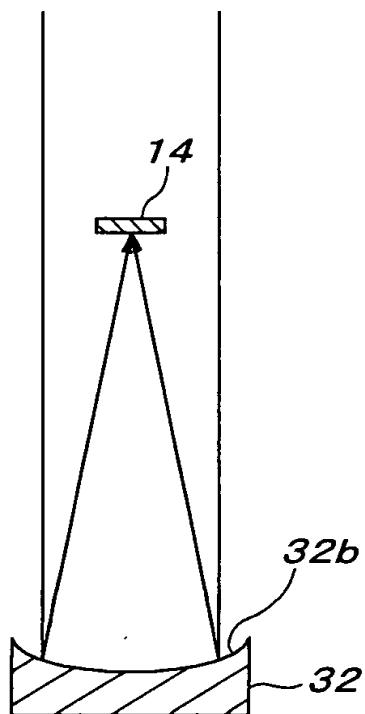
*FIG. 16(a)*



*FIG. 16(b)*



*FIG. 17(a) FIG. 17(b)*



**FIG. 18**

